

Exhibit 300: Capital Asset Plan and Business Case Summary

Part I: Summary Information And Justification (All Capital Assets)

Section A: Overview

1. **Date of Submission:** 2010-08-27

2. **Agency:** 006

3. **Bureau:** 07

4. **Name of this Investment:** Census - 2020 Decennial Census Research and Testing Phase, FY2012-14

5. **Unique Project (Investment) Identifier (UPI):** 006-07-01-02-01-4014-00

6. **What kind of investment will this be in FY 2012?:** Planning

- Planning
- Full Acquisition
- Operations and Maintenance
- Mixed Life Cycle
- Multi-Agency Collaboration

7. **What was the first budget year this investment was submitted to OMB?** FY2012

8.

- a. **Provide a brief summary of the investment and justification, including a brief description of how this closes in part or in whole an identified agency performance gap, specific accomplishments expected by the budget year and the related benefit to the mission, and the primary beneficiary(ies) of the investment.**

The Census Bureau plans to conduct a 2020 Census at a lower cost per housing unit than in 2010 (as calculated per housing unit on an inflation-adjusted basis). The approach is to build on lessons learned from previous censuses, while addressing societal and technologic trends. This investment supports the FY 2012-2014 Research and Testing Phase of the 2020 Census Program, enabling the Census Bureau to make key IT and programmatic design decisions based on solid research early in the decade. It also supports DOC strategic objective "Generating and communicating new, cutting-edge scientific understanding of technical, economic, social, and environmental systems." The requested funding will enable the Census Bureau to successfully research and test innovations intended to decrease cost while maintaining or increasing quality. Further, this approach allows for early design decisions mitigating potential risk later in the decade. Specifically, the Census Bureau will focus on: integrating key program controls; iterating the planning and budgeting process, allowing planning and design flexibility; and making evidence-based decisions derived from research and testing. These strategies will work together to contain downstream costs, without compromising quality. The work done in FY 2012-2014 lays the groundwork needed to achieve the 2020 Census goals. In FY 2012, the Census Bureau will focus on identifying design options for automating field operations, developing a centralized Headquarters IT infrastructure, developing workload management applications, and prototyping an administrative records database for non-response. In FY 2013, we will focus on testing and eliminating options and beginning design work on the design of a Virtual Local Census Office (LCO), as well as the use of it as a test bed for further design and prototyping work. In FY 2014, design decisions will be made about the logic for the IT investments. The Census Bureau components benefitting from this new approach to a decennial Census include: Current Survey programs in the Demographic Programs Directorate, the American Community Survey Office, the 2020 Decennial Census Program, the Field Directorate, the Technology Management Office, the IT Directorate, the Geography Division, the Office of the Senior Advisor for Project Management, and the Data Access and Dissemination Systems Office. External beneficiaries include the American taxpayer.

- b. **Provide any links to relevant websites that would be useful to gain additional information on the**

investment including links to GAO and IG reports.

Title	Link
Memo to Census Bureau re: Recommendations from 2010 Census: Quarterly Report to Congress, February 2010: OIG-19791-3 (2.26.10)	http://www.oig.doc.gov/oig/reports/census_bureau
2010 Census: Census Bureau Has Made Progress on Schedule and Operational Control Tools, but Needs to Prioritize Remaining System Requirements	http://www.gao.gov/new.items/d1059.pdf

9.

- a. **Provide the date of the Agency's Executive/Investment Committee approval of this investment.**

2010-06-03

- b. **Provide the date of the most recent or planned approved project charter.** 2009-06-06

10. Contact information?

- a. **Program/Project Manager Name:** *

Phone Number: ***Email:** *

- b. **Business Function Owner Name (i.e. Executive Agent or Investment Owner):** Arnold Jackson

Phone Number: ***Email:** *

11. What project management qualifications does the Project Manager have? (choose only one per FAC-P/PM or DAWIA): Project manager has been validated according to FAC-P/PM or DAWIA criteria as qualified for this investment.

- Project manager has been validated according to FAC-P/PM or DAWIA criteria as qualified for this investment.
- Project manager qualifications according to FAC-P/PM or DAWIA criteria is under review for this investment.
- Project manager assigned to investment, but does not meet requirements according to FAC-P/PM or DAWIA criteria.
- Project manager assigned but qualification status review has not yet started.
- No project manager has yet been assigned to this investment.

Section B: Summary of Funding (Budget Authority for Capital Assets)

1.

Table I.B.1: Summary of Funding

(In millions of dollars)

(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)

	PY-1 and earlier	PY 2010	CY 2011 (CY Continuing Resolution)	BY 2012	BY+1 2013	BY+2 2014	BY+3 2015	BY+4 and beyond	Total
Planning:	*	*	*	*	*	*	*	*	*
Acquisition:	*	*	*	*	*	*	*	*	*
Planning & Acquisition Government FTE Costs	*	*	*	*	*	*	*	*	*
Subtotal Planning & Acquisition(DME):	*	*	*	*	*	*	*	*	*
Operations & Maintenance:	*	*	*	*	*	*	*	*	*
Disposition Costs (optional):	*	*	*	*	*	*	*	*	*
Operations, Maintenance, Disposition Government FTE Costs	*	*	*	*	*	*	*	*	*
Subtotal O&M and Disposition Costs (SS):	*	*	*	*	*	*	*	*	*
TOTAL FTE Costs	*	*	*	*	*	*	*	*	*
TOTAL (not including FTE costs):	*	*	*	*	*	*	*	*	*
TOTAL (including FTE costs):	*	*	*	*	*	*	*	*	*
Number of FTE represented by	*	*	*	*	*	*	*	*	*

Table I.B.1: Summary of Funding
(In millions of dollars)

(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)

	PY-1 and earlier	PY 2010	CY 2011 (CY Continuing Resolution)	BY 2012	BY+1 2013	BY+2 2014	BY+3 2015	BY+4 and beyond	Total
Costs:									

2. Insert the number of years covered in the column “PY-1 and earlier”:

3. Insert the number of years covered in the column “BY+4 and beyond”: *

4. If the summary of funding has changed from the FY 2011 President’s Budget request, briefly explain those changes:

*

Section C: Acquisition/Contract Strategy (All Capital Assets)

1.

Table I.C.1 Contracts Table

Contract Status	Contracting Agency ID	Procurement Instrument Identifier (PIID)	Indefinite Delivery Vehicle (IDV) Reference ID	Solicitation ID	Alternative financing	EVM Required	Ultimate Contract Value (M)	Type of Contract/Task Order (Pricing)	Is the contract a Performance Based Service Acquisition (PBSA)?	Effective date	Actual or expected End Date of Contract/Task Order	Extent Completed	Short description of acquisition
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NONE

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

*

3.

- a. Has an Acquisition Plan been developed? If yes, please answer the questions that follow *
- b. Does the Acquisition Plan reflect the requirements of FAR Subpart 7.1 *
- c. Was the Acquisition Plan approved in accordance with agency requirements *
- d. If "yes," enter the date of approval? *
- e. Is the acquisition plan consistent with your agency Strategic Sustainability Performance Plan? *
- f. Does the acquisition plan meet the requirements of EOs 13423 and 13514? *
- g. If an Acquisition Plan has not been developed, provide a brief explanation.

*

Part II: IT Capital Investments

Section A: General

1.
 - a. Confirm that the IT Program/Project manager has the following competencies: configuration management, data management, information management, information resources strategy and planning, information systems/network security, IT architecture, IT performance assessment, infrastructure design, systems integration, systems life cycle, technology awareness, and capital planning and investment control. yes
 - b. If not, confirm that the PM has a development plan to achieve competencies either by direct experience or education.
2. Describe the progress of evaluating cloud computing alternatives for service delivery to support this investment. This is a research and testing initiative to identify optimal standardized and centralized IT solutions, including cloud computing for the decennial census and other Census Bureau programs.
3. Provide the date of the most recent or planned Quality Assurance Plan 2012-09-30
4.
 - a. Provide the UPI of all other investments that have a significant dependency on the successful implementation of this investment.
006-07-01-02-01-4004-00,006-07-01-02-01-4009-00,006-07-02-00-01-4017-00,006-07-01-02-01-4001-00
 - b. If this investment is significantly dependent on the successful implementation of another investment(s), please provide the UPI(s).
5. An Alternatives Analysis must be conducted for all Major Investments with Planning and Acquisition (DME) activities and evaluate the costs and benefits of at least three alternatives and the status quo. The details of the analysis must be available to OMB upon request. Provide the date of the most recent or planned alternatives analysis for this investment. 2010-04-01
6. Risks must be actively managed throughout the lifecycle of the investment. The Risk Management Plan and risk register must be available to OMB upon request. Provide the date that the risk register was last updated. 2010-07-16

Section B: Cost and Schedule Performance

Table II.B.1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline:

Description of Activity	DME or SS	Agency EA Transition Plan Milestone Identifier	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
FY 2012 - Candidate Field Automation designs identified	DME	*	\$4.7		2011-10-01		2012-09-30		0.00%	0.00%
FY2012 - Candidate Integrated IT infrastructure designs identified	DME	*	\$8.8	\$0.0	2011-10-01		2012-09-30		0.00%	0.00%
FY2012 - Candidate Web Based HQ Management System design identified	DME	*	\$0.4		2011-10-01		2012-09-30		0.00%	0.00%
FY2012 - Contracts with commercial data vendors have been executed for developing Alternative Adreecs Database	DME	*	\$1.1		2011-10-01		2012-09-30		0.00%	0.00%
FY2012 - Initial Field Automation IT requirements benchmarked	DME	*	\$3.1		2011-10-01		2012-09-30		0.00%	0.00%
FY2012 - Initial Integrated IT infrastructure requirements benchmarked	DME	*	\$5.8		2011-10-01		2012-09-30		0.00%	0.00%
FY2012 - Prototype Alternative Adreecs database	DME	*	\$0.3		2011-10-01		2012-09-30		0.00%	0.00%

Table II.B.1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline:

Description of Activity	DME or SS	Agency EA Transition Plan Milestone Identifier	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
developed										
FY2012 - Requirements for Web Based HQ Management System benchmarked	DME	*	\$1.7		2011-10-01		2012-09-30		0.00%	0.00%
FY2013 - Candidate Field Automation designs developed	DME	*	*	*	2012-10-01	*	2013-09-30	*	*	*
FY2013 - Candidate Field Automation designs tested	DME	*	*	*	2012-10-01	*	2013-09-30	*	*	*
FY2013 - Candidate Integrated IT Infrastructure designs evaluated	DME	*	*	*	2012-10-01	*	2013-09-30	*	*	*
FY2013 - Integrated IT Infrastructure equipment stood up	DME	*	*	*	2012-10-01	*	2013-09-30	*	*	*
FY2013 - Prototype Alternative Adreco database refined	DME	*	*	*	2012-10-01	*	2013-09-30	*	*	*
FY2013 - Virtual LCO operational	DME	*	*	*	2012-10-01	*	2013-09-30	*	*	*
FY2013 - Web Based HQ Management design evaluated	DME	*	*	*	2012-10-01	*	2013-09-30	*	*	*

Table II.B.1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline:

Description of Activity	DME or SS	Agency EA Transition Plan Milestone Identifier	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
FY2014 - Candidate Integrated HQ IT infrastructure design developed and tested	DME	*	*	*	2013-10-01	*	2014-09-30	*	*	*
FY2014 - Field Automation design developed and tested	DME	*	*	*	2013-10-01	*	2014-09-30	*	*	*
FY2014 - LCO Test Bed operational	DME	*	*	*	2013-10-01	*	2014-09-30	*	*	*
FY2014 - Prototype Alternative Adrescs Database finalized	DME	*	*	*	2013-10-01	*	2014-09-30	*	*	*
FY2014 - Web Based HQ Management design developed and tested	DME	*	*	*	2013-10-01	*	2014-09-30	*	*	*

2. If the investment cost, schedule, or performance variances are not within 10 percent of the current baseline, provide a complete analysis of the reasons for the variances, the corrective actions to be taken, and the most likely estimate at completion.

3. For mixed lifecycle or operations and maintenance investments an Operational Analysis must be performed annually. Operational analysis may identify the need to redesign or modify an asset by identifying previously undetected faults in design, construction, or installation/integration, highlighting whether actual operation and maintenance costs vary significantly from budgeted costs, or documenting that the asset is failing to meet program requirements. The details of the analysis must be available to OMB upon request. Insert the date of the most recent or planned operational analysis.

4. Did the Operational analysis cover all 4 areas of analysis: Customer Results, Strategic and Business Results, Financial Performance, and Innovation?

Section C: Financial Management Systems

Table II.C.1: Financial Management Systems			
System(s) Name	System acronym	Type of Financial System	BY Funding
*	*	*	*

Section D: Multi-Agency Collaboration Oversight (For Multi-Agency Collaborations only)

Table II.D.1. Customer Table:	
Customer Agency	Joint exhibit approval date
NONE	

Table II.D.2. Shared Service Providers		
Shared Service Provider (Agency)	Shared Service Asset Title	Shared Service Provider Exhibit 53 UPI (BY 2011)
*	*	*

Table II.D.3. For IT Investments, Partner Funding Strategies (\$millions):							
Partner Agency	Partner exhibit 53 UPI (BY 2012)	CY Monetary Contribution	CY “In-Kind” Contribution	CY Fee-for-Service	BY Monetary Contribution	BY “In-Kind” Contribution	BY Fee-for-Service
NONE							

Table II.D.4. Legacy Systems Being Replaced		
Name of the Legacy Investment of Systems	Current UPI	Date of the System Retirement
*	*	*

Section E: Performance Information

Table I.E.1a. Performance Metric Attributes

Measurement Area (For IT Assets)	Measurement Grouping (For IT Assets)	Measurement Indicator	Reporting Frequency	Unit of Measure	Performance Measure Direction	Baseline	Year Baseline Established for this measure (Origination Date)
Mission and Business Results	System Development	Number of Candidate Field Automation Designs	annual	Number	Decrease	No candidate Field Automation Designs	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2014	Identify final design for Field Automation Infrastructure		Not Due	2010-09-21
Mission and Business Results	System Development	Number of Candidate Field Automation Designs	annual	Number	Increase	No candidate Field Automation Designs	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2012	Develop 3 alternative designs for Field Automation Infrastructure		Not Due	2010-09-21
Mission and Business Results	System Development	Number of Candidate Field Automation Designs	annual	Number	Increase	No candidate Field IT Automation Designs	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2013	Complete alternative analysis for 3 candidate Field IT Automation designs		Not Due	2010-09-21
Mission and Business Results	System Development	Number of Candidate Integrated IT Designs	annual	Number	Decrease	No candidate Integrated IT Designs	2010-09-01
			Fiscal Year	Target	Actual Results	Target	Last Updated

Mission and Business Results	System Development	Number of Candidate Integrated IT Designs				"Met" or "Not Met"	
			2014	Identify final design for Integrated IT infrastructure		Not Due	2010-09-21
			annual	Number	Increase	No candidate Integrated IT Designs	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2012	Develop 3 alternative designs for Integrated IT infrastructure		Not Due	2010-09-21
Customer Results	Delivery Time	Number of IT Centralized Evaluations Requested	2013	Complete alternative analysis for 3 candidate Integrated IT designs		Not Due	2010-09-21
			annual	Number	Increase	No current IT Centralized Evaluations Requested	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2014	Identify top 3 approaches to IT centralized evaluations completed (HW, SW, Telecom, Security)		Not Due	2011-02-23
			annual	Number	Increase	No current IT Centralized Evaluations Requested	2010-09-01
Customer Results	Delivery Time	Number of IT Centralized Evaluations Requested	Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2012	At least 6 IT centralized evaluations completed (HW, SW, Telecom, Security)		Not Due	2011-02-23
			2013	At least 2 additional IT centralized evaluations completed (HW, SW, Telecom, Security)		Not Due	2010-09-21

Customer Results	Delivery Time	Number of IT Field Evaluations Requested	annual	Number	Increase	No current IT Field Evaluations Requested	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2012	At least 12 field IT evaluations completed (HW, SW, Telecom, Security)		Not Due	2010-09-21
			2013	At least 6 additional field IT evaluations completed (HW, SW, Telecom, Security)		Not Due	2010-09-21
			2014	At least 3 additional field IT evaluations completed (HW, SW, Telecom, Security)		Not Due	2010-09-21
Technology	Technology Improvement	Number of opportunities identified to reduce centralized IT redundancy	annual	Number	Increase	No redundant centralized IT processes have been identified	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2012	Identify at least 6 candidate redundant centralized IT processes		Not Due	2010-09-21
			2013	Evaluate at least 6 candidate redundant centralized IT processes		Not Due	2010-09-21
			2014	Tested at least 2 candidate centralized IT infrastructure solutions		Not Due	2010-09-21
Technology	Technology Improvement	Number of opportunities identified to reduce Field IT redundancy	annual	Number	Increase	No redundant Field IT processes have been identified	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2013	Evaluate at least 10 candidate redundant field IT processes		Not Due	2010-09-21

			2014	Tested at least 2 candidate Field IT solutions		Not Due	2010-09-21
Technology	Technology Improvement	Number of opportunities identified to reduce Field IT redundancy	monthly	Number	Increase	No redundant Field IT processes have been identified	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2012	Identify at least 10 candidate redundant field IT processes		Not Due	2010-09-21
Technology	IT Contribution to Process, Customer, or Mission	Percent change in centralized IT test requirements after baselining	annual	Percent	Decrease	No current centralized IT requirements have been baselined	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2014	0 % centralized IT test requirements changed		Not Due	2010-09-21
Technology	IT Contribution to Process, Customer, or Mission	Percent change in centralized IT test requirements after baselining	annual	Percent	Decrease	No current centralized IT test requirements have been baselined	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2012	100 percent of centralized IT test requirements baselined		Not Due	2010-09-21
Technology	IT Contribution to Process, Customer, or Mission	Percent change in centralized IT test requirements after baselining	annual	Percent	Decrease	No current centralized IT requirements have been baselined	2010-09-01
			Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
			2013	25 % or fewer centralized IT test		Not Due	2010-09-21

Technology	IT Contribution to Process, Customer, or Mission	Percent change in field IT test requirements after baselining	requirements changed					2010-09-01
			annual	Percent	Decrease	No current field IT requirements have been baselined		
			Fiscal Year	Target	Actual Results	Target “Met” or “Not Met”	Last Updated	
			2012	100 percent of field IT test requirements baselined		Not Due	2010-09-21	
			2014	0 % field IT test requirements changed		Not Due	2010-09-21	
Technology	IT Contribution to Process, Customer, or Mission	Percent change in field IT test requirements after baselining	annual	Percent	Decrease	No current field IT requirements have been baselined		2010-09-01
			Fiscal Year	Target	Actual Results	Target “Met” or “Not Met”	Last Updated	
			2013	25 % or fewer field IT test requirements changed		Not Due	2010-09-21	
Processes and Activities	Risk	Risks Identified	monthly	Number	Increase	No project-level Risk Registers established; No Project-Level Risk Plans identified		2010-09-01
			Fiscal Year	Target	Actual Results	Target “Met” or “Not Met”	Last Updated	
			2012	Project-level Risk Registers established, and updated monthly		Not Due	2011-02-23	
			2014	Project-Level Risk Registers updated monthly and Risk Plans developed		Not Due	2010-09-21	
Processes and Activities	Risk	Risks Identified	monthly	Number	Increase	No project-level Risk Registers established; No Project-Level Risk Plans identified		2010-09-01

Fiscal Year	Target	Actual Results	Target “Met” or “Not Met”	Last Updated
2013	Project-Level Risk Registers updated monthly and Risk Plans developed		Not Due	2010-09-21

* - Indicates data is redacted.